

# User Manual for UROVO i3000



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**Before using this product, read this manual carefully.**

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# Chapter 1 Packing Confirmation

## Checking Articles Contained in the Package

Before using the product, please check whether the package contains the following articles:



Power adapter



Battery



Connector adapter



Data line

# **Chapter 2 Introduction**

## **Product Introduction**

The i3000 product is an industry-level handheld terminal developed, designed, and produced based on features of different industries by Urovo Technology Co., Ltd. (hereinafter referred to as the Company). The i3000 adopt ergonomic design and is compact and flexible, shock-proof, and drop-proof. The i3000 can work in the standby mode for a long time. In addition, the i3000 adopt the dual power supply mode and support the conversation function.

### **1 Integrated and Portable Design**

With the waterproof, dustproof, drop-proof, high-/low-temperature resistant and electrostatic discharge (ESD) design in compliant with the IP54 industrial standard, the i3000 can endure multiple drops to a smooth concrete floor from a height of 1.2 m, and resist splashes and dusts in any direction. The high capacity and long service life of the battery can fully meet the requirements for daylong mobile operations. The dual power supply mode can avoid any data loss. The ergonomic design complies with the operational habits of you and can mitigate operation fatigue. Among all handheld terminals in the market, the i3000 product has the lightest weight, because it weighs only 280g (including the battery). With the dimensions of 189mm (length) x 68 mm (width) x 38 mm (thickness), the product is compact, portable, and easy to carry.

### **2 High-Speed and High-Capacity Data Processing**

The i3000 provide a 533 MHz CPU processing speed, 512/256/128 MB built-in storage, and 128 MB memory, which ensures the high-speed running of programs with complex service logic and efficient data

processing. The i3000 support the Micro SD/TF card with a maximum capacity of 32GB and can store a large amount of service data.

### **3 Powerful and Flexible Data Communication**

The i3000 provide various functions, including voice and short messaging on the GSM network, GPRS data communication, communication on the 802.11b/g/n Wi-Fi WLAN, communication by using the RS232 serial port, and Bluetooth communication. The i3000 comply with the CISCO CCX2, 3 security standards and support the CISCO AP and security regulations. The i3000 can be used to update data remotely.

### **4 Windows CE Operating System**

The Windows CE operating system (OS) provides a complete feature set and development environment, and obtains features of every customized device such as real-time, small memory usage, multimedia, and network connecting capability. The OS supports multiple languages, including English, Simplified Chinese, and Traditional Chinese. The OS can be used to develop terminal software by using Java, C++, and C# and provides a comprehensive software development kit (SDK) free of charge. The OS supports remote connection by using Telnet and Microsoft Internet Explorer 6 for browsing HTML/XML files.

## **Main Functions and Features**

1. Compact, portable, and durable.
2. Long working time: The product can work for more than eight hours consecutively.
3. Easy charging: The product uses a USB interface for charging without a specialized data line. You can charge the device anytime anywhere as long as there is a USB interface.

4. Dual power supply mode: When the master battery is used up and the slave battery is fully charged, the product can work in the standby mode for six hours to prevent data loss caused by unexpected power failure.
5. Extensible hardware module
  - a A camera with 5 million pixels
  - b GPS positioning
  - c High frequency/ultrahigh frequency RFID read/write
6. Built-in one-dimension scanning module
7. Communication mode: The product supports Wi-Fi communication, GPRS/GSM communication, and Bluetooth communication.
8. Open design: The product provides a software interface that can be used to develop application functions.
9. The product is an industry-level device that is drop-proof, dustproof and high-/low-temperature resistant.
10. High-speed and high-capacity data processing: The product provides a 533 MHz CPU processing speed, 512/256/128 MB built-in storage, and 128 MB memory and supports the Micro SD/TF card with a maximum capacity of 32GB.
11. The product provides a 3.2 in. color touch screen.
12. The product supports Chinese handwriting input.

## **Applicable Industries**

- ◆ Apparel industry
- ◆ Fast moving consumer goods (FMCG), retail, and supply chain industries
- ◆ Logistics industry (including warehousing, express delivery, and LTL material transport)
- ◆ Hospital, government, mobile office, and asset inventory.

## Detailed Parameters

Model	I3000	
CPU	SAMSUNG S3C2451 (533 MHz)	
Operating System	Microsoft Windows CE 5.0 OS (Multi-lingual)	
Memory	RAM	128 MB
	Flash-ROM	128/256/512 MB (standard configuration: 128 MB)
	Extension	Micro SD/TF slot (a maximum of 32 GB)
Scanning Parameters	Scanning engine type	One-dimension laser scanner
	Scanning speed	200 per second (bidirectional)
	Scanning distance	60–650 mm
	Scanning angle	54±5 degree
	Resolution	0.127–1.00 mm
	Readable barcodes	UPC-A, UPC-E, UPC-E1, EAN-8, EAN-13, Bookland EAN, Code 128, UCC/EAN-128, Code 39, Trioptic Code 39, Code 39 Full ASCII, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Codabar, MSI, GS1 DataBar 14, GS1 DataBar Limited, GS1 DataBar Expanded
Screen		3.2 in. TFT-LCD QVGA (240 x 320) color touch screen

Input	Soft keyboard	English, Pinyin, and Chinese handwriting
	Hard keyboard	28-key alphanumeric keyboard
	Scanning start key	the central key
Communication	Wi-Fi WLAN (standard configuration)	The i3000 product supports communication on the 802.11b/g/n Wi-Fi WLAN with a rate of 65 Mbit/s, which meets the requirements of the CISCO CCX2, 3 security standards and supports CISCO AP and security
	Bluetooth (standard configuration)	Bluetooth V2.1+EDR
	Wide-area wireless network (extension)	The i3000 product provides a GSM/GPRS wireless communication module and supports GSM/GPRS Class10 and GSM0710 multiplexing.
	Camera (extension)	Camera with 3/5 million pixels and fill light
	GPS (extension)	48 channels; positioning accuracy: less than 2.5 m; speed accuracy: less than 0.01 m/s
	RFID (extension)	High frequency/ultrahigh frequency RFID read/write

Power (Dual-Power Mode)	Master battery	3.8V 3000 mAh rechargeable lithium battery
	Working hours	10 or above (depending on the actual environment)
	Charging time.	3.5 hours
	Slave battery	210 mAh, providing power for six hours
Ingress protection		IP54
Dimensions	Ergonomic design	189mm (length) x 68 mm (width) x 38 mm (thickness)
Weight		280 g (with batteries)
Working Environment	Operating temperature	-15 to +50°C
	Storage temperature	-20 to +60°C
	Operating humidity	Relative humidity: 5–95% (no condensation)
	Storage humidity	Relative humidity: 5–95% (no condensation)
	Endurable height for dropping	The i3000 product can endure multiple drops to a smooth concrete floor from a height of 4 inches (1.2 m).

Certification	CCC and CE	The i3000 have successfully passed the CCC compulsory product certification, CE certification, and obtained the type approval certificate for radio transmission equipment issued by the Ministry of Industry and Information Technology.
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\*The preceding parameters are for reference only. Parameters of a specific model are subject to specific configurations.

## Function Introduction: Front View and Side View





5. Charging  
Dock Interface

6. Window for  
scanning barcodes

7. Camera

8. Loudspeaker

## **1. Charging and system indicator**

The indicator is displayed in red during charging and green when the charging is complete and the system runs properly. The indicator blinks in green when the power is insufficient.

## **2. Scanning indicator**

The indicator is displayed in red when a barcode is scanned successfully.

## **3. Power button**

The power button can be used to power on/off the device or switch the device into sleep or wake-up mode.

## **4. Headphone jack**

The headphone jack can be inserted with a 3.5 mm headphone.

## **5. Touch screen**

The touch screen enables you to perform operations by using a stylus.

## **6. USB and charging interface**

The USB and charging interface can connect to a USB data line to transmit and receive data or a power adapter to charge the device.

## **7. Reset hole**

You can use a stylus to click the reset hole to reset the device.

## **8. Master keyboard**

For details about the master keyboard, see “Master Keyboard Introduction”.

## Master Keyboard Introduction



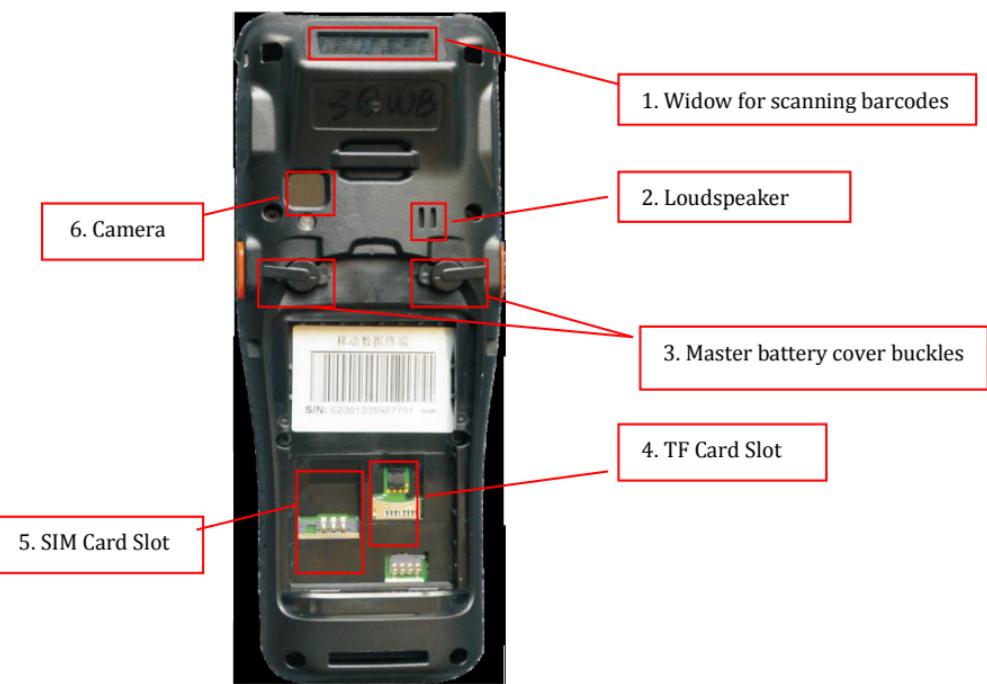
1. **S1 key:** It represents the left softkey and is equivalent to the **F11** key on a computer keyboard.
2. **ESC key:** You can press the **ESC** key to perform operations such as cancel and exit.
3. **Alphanumeric keys:** You can input numbers or letters based on the current input mode.
4. **Function key:** You can use a key combination by pressing **Fn**, releasing it, and then pressing another key.
5. **Keyboard backlight key:** You can press to turn on/off the keyboard backlight.

6. **Arrow keys:** The four arrow keys represent four directions (left/up/right/down).
7. **Barcode scanning key:** You can scan barcodes by pressing this key.
8. **S2 key:** It represents the right softkey and is equivalent to the **F12** key on a computer keyboard.
9. **Enter key:** You can press the **Enter** key for confirmation or to switch to next line.
10. **Backspace key:** You can press  to delete the previous character.
11. **Alphanumeric switching key:** You can press  to switch to another input mode.
12. **Power Button:** You can press it to turn on or turn off the equipment.

The key combinations are as follows: =

Fn + 0	F10
Fn + 1	F1
Fn + 2	F2
Fn + 3	F3
Fn + 4	F4
Fn + 5	F5
Fn + 6	F6
Fn + 7	F7
Fn + 8	F8
Fn + 9	F9
Fn + Tab	Reset scanner

## Function Introduction: Back View



### 1. Widow for scanning barcodes

Laser comes out from this window. Do not look into the window with naked eyes.

### 2. Loudspeaker

### 3. Master battery cover buckles

The master battery cover buckles are used to fix the battery cover.

### 4. TF card slot

A Micro SD/TF memory card can be inserted in the TF card slot.

### 5. SIM card slot

An SIM card provided by carriers can be inserted in the SIM card slot.

### 6. Camera

A camera and fill light are installed here.

# **Chapter 3 Using the Device**

## **Installing the SIM Card, Memory Card and Battery**

1. Rotate the master battery cover buckles by 90 degree to remove the battery cover.
2. Insert the SIM card or Micro SD/TF card into the combo deck in the battery compartment and fasten the buckle.
3. Install the battery properly, close the battery cover, and fasten the buckles.

**Note:** Only 50% electricity remains in the battery when you use the battery for the first time. You can charge the battery by using the power adapter or a seat charger (purchased separately). The first charging must be more than 12 hours.

## **Powering On/Off the Device**

The i3000 product is powered off when you obtain it for the first time.

After you press and hold down the power button, the indicator is turned on and the Windows CE screen is displayed. Then you can release the button to power on the device.

When the device is not used, you can switch the device into sleep mode or power off the device to save electricity.

1. If you shortly press the power button when the device is in powered-on mode, the device is switched to sleep mode.

When the device works in sleep mode, power is provided to certain components and data in the memory is retained. You can press the power button again to switch back to wake-up mode.

2. If you press and hold down the power button for more than three seconds when the device is powered-on, the following dialog box is displayed:



Select **Yes** to power off the device.

During power-off, the power supply is cut off and data in the memory is lost. You can press and hold down the power button again to power on the device.

## Changing Date and Time

Click **Date/Time** on the control panel or double-click the time zone on the taskbar to display the **Date/Time Properties** dialog box.



Click the **Time Zone** drop-down list to choose the required time zone.  
Click **Apply** on the lower right corner of the dialog box to save the configuration.



Click the number indicating the year to enter a year directly or change the year by clicking the up and down arrows.



Click the characters indicating a month to change it in the displayed menu or click the up and down arrows to change the month.



Click the mapping number in the date area to change the date.

After the configuration is complete, click **OK** on the upper right corner of the dialog box to save the configuration.

## **Using the Stylus**

Clicking objects on the device screen is the basic operation and is similar to using the mouse to click objects on a computer screen.

When the device is powered on, you can use the stylus to perform multiple operations, such as starting an application, choosing a menu, or selecting items in a dialog box.

You can double-click an icon on the screen to start an application.

Just like you drag the mouse to select text or move objects on a computer, you can drag the stylus to select text or use the stylus to drag the scroll bar.

For many applications, after you press and hold down an object for about two seconds by using the stylus, a context menu is displayed.

**Note:** You must use the dedicated stylus to perform operations on the screen. Do not use a ball pen, pencil or other sharp articles.

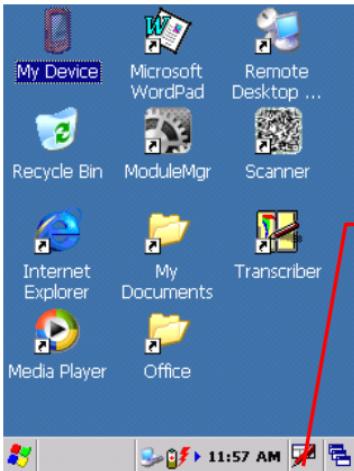
## **Entering Text**

You can enter text in the following ways:

- ◆ Entering text by using the soft keyboard on the screen
- ◆ Entering text by using the hard keyboard of the device

### **Entering text by using the soft keyboard**

A soft keyboard is displayed in the lower area of the screen. You can use different soft keyboards to adopt corresponding input methods to enter letters, numbers or symbols.

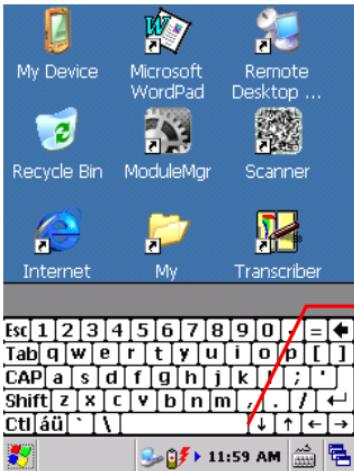


Use the stylus to click the keyboard icon on the taskbar.



The list of available soft keyboards is displayed on the screen. You can choose the required soft keyboard from the list.

Click **Keyboard** to display the keyboard input panel.



Use the stylus to click the soft keyboard to enter letters, numbers or symbols.



Choose **Hide Input Panel** to hide the current soft keyboard.

## Entering text by using the hard keyboard

You can use alphanumeric keys on the master keyboard to enter text.

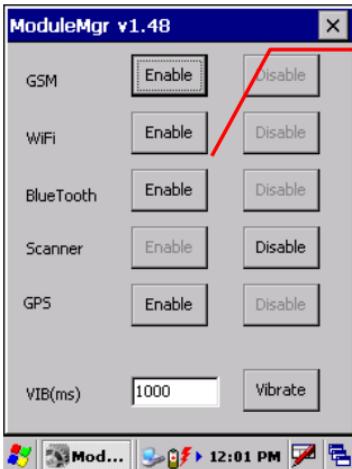
The current input mode is displayed on the taskbar. You can press  to switch the current input mode to other modes such as number mode, upper case mode, and lower case mode. You can set the default input mode of the master keyboard by choosing **Control Panel > Keyboard**.

## Managing Device Functions

Certain functions of the i3000 product are turned off when you use it for the first time. You can start the required functions by using the device function manager ModuleMgr.

You can start the device function manager by double-clicking the **ModuleMgr** icon on the desktop or control panel.





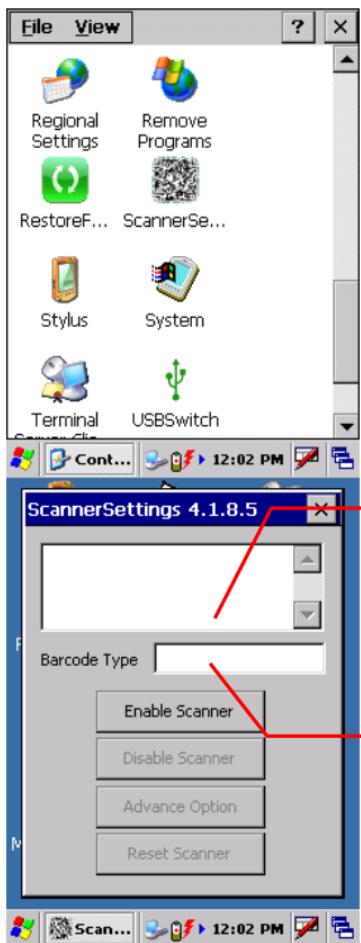
Click **Enable** or  
**Disable** to enable or  
disable the related  
functions.

When you enable/disable a certain function, the system retains the configuration and enables/disables the function automatically after next power-on.

## Scanning Barcodes

You can use the **ModuleMgr** or **ScannerSetting** program to start the scanner, and then press the orange barcode scanning key on the master keyboard to scan barcodes.

You can start the **ScannerSetting** program by double-clicking the **ScannerSetting** icon on the desktop or control panel.



The bar code is  
displayed in this area.

The bar code type is  
displayed in this area.

## Connecting to a PC

You can connect the device to a PC by using a data line if Microsoft ActiveSync 4.5 (Window 2000/XP/2003) or Windows Mobile Device Center 6.1 (windows Vista/2008/7) is installed on the PC.

You can download Microsoft ActiveSync 4.5 (Window 2000/XP/2003) or Windows Mobile Device Center 6.1 (windows Vista/2008/7) from [www.Microsoft.com](http://www.Microsoft.com).

## Restarting the Device

You may need to restart the device to recover normal running occasionally (when more applications are running than in normal cases or when certain software runs abnormally). The device can be restarted in the following two modes:

### 1. Warm boot

If you restart the device in warm boot mode, ongoing items are stopped before the device restarts. Records and data in the memory are retained. Execution method: Use the stylus to click the reset hole and release it immediately.

### 2. Cold boot

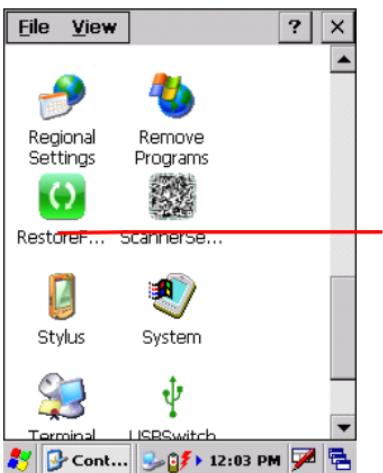
If you restart the device in cold boot mode, the power is cut off forcedly. Ongoing items are terminated and the device restarts. Data in the memory is deleted.

Execution method: Press and hold down  , use the stylus to click the reset hole, and then release  and the reset hole simultaneously.

## Restoring Default Settings

In some cases, you may need to delete certain settings. You can delete data in the memory and registry by restoring the default settings.

You can restore the default settings by double-clicking the **RestoreFactoryDefault** icon and enter **1234**. After the operation is successful, the device automatically restarts.



Double-click the  
**RestoreFactoryDefault** icon.

## Calibrating the Screen

After a period, the clicking point of the stylus may shift and you must re-calibrate the screen.

Click the stylus icon in the control panel to display the **Stylus Properties** dialog box. Click the **Calibrate** tab in the dialog box, and then click

**Re-calibrate**. The calibration screen is displayed.



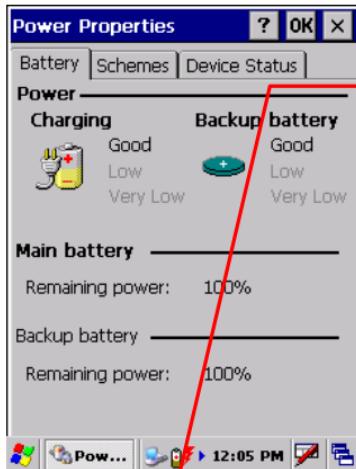
Press and briefly hold stylus on the center of the screen.  
Repeat as the target moves around the screen.  
Press the Esc key to cancel.



Use the stylus to click the cross center on the screen. After each click, the cross is displayed in another position. After you click the cross center correctly for a consecutive five times, the cross disappears. At this point, you can press the **Enter** key to save the calibration.

## Checking the Remaining Electricity

You can click the power icon on the control panel to display the **Power Properties** dialog box.



When the electricity is insufficient, the system displays a warning icon on the taskbar. You can display the **Power Properties** dialog box by clicking the warning icon.

When the electricity is to be used up, the warning icon changes to .

## **Precautions for Using the Battery**

Certain files and information may be stored in the memory. If the battery runs out, these files and information are lost. Therefore, providing power to the device constantly is very important.

In general cases, the device can work for more than eight hours after it is fully charged. When the electricity is reduced to a certain level, the system indicator blinks and a warning indicating electricity insufficiency is displayed. If you continue to use the device, the device switches to sleep mode or is turned off automatically.

To extend the battery life, you must follow the following advices:

1. Minimize the battery charge and discharge times and charge the battery only when the system displays the electricity insufficiency warning.
2. Prevent over discharge in daily use and charge the battery immediately when the system displays the electricity insufficiency warning. Over discharge shortens the battery life.
3. Prevent overcharging in daily use and stop charging when the battery electricity exceeds 95%. You must calculate the charging time correctly when a seat charger is used. Do not charge a fully-charged battery because over charging shortens the battery life.
4. Charge and discharge the battery completely when you use the battery for the first time and every three months.
5. If the battery is not used for a long time, you must remove the battery from the device and retain 50% of electricity in the battery.

## **Chapter 4 Advanced Settings**

## Setting the Power Button Function

You can click **PowerButton** icon on the control panel to set the power button function.



Enable: You can press and hold down the power button to turn off the device.

Disable: No function is provided when you press and hold down the power button.

Enable: You can shortly press the power button during power-on to switch the device to sleep mode.

Disable: No function is provided when you shortly press the power button.

## Setting the GPRS Network

Before using the GPRS, you must ensure that the GSM function is enabled.

You can start the GSM function by using the device function manager ModuleMgr.

You can create the GPRS connection in the following two ways:

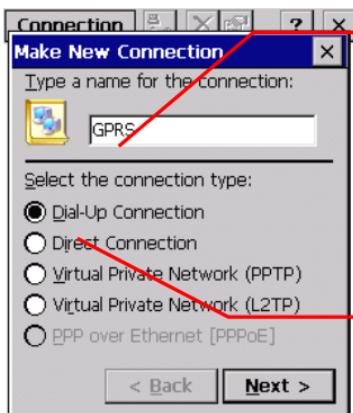
1. Creating the connection manually.

Double-click the **Network and Dial-up Connection** icon on the control panel to enable the network and the dial-up connection manager.

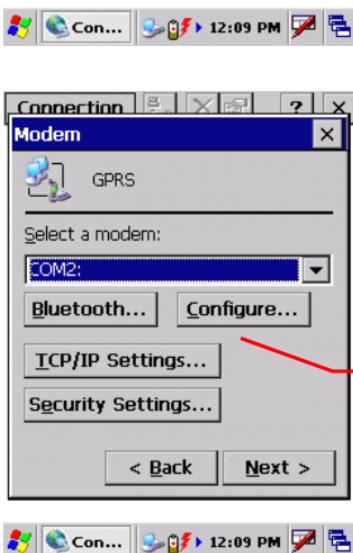


Click **New Connections** connection.



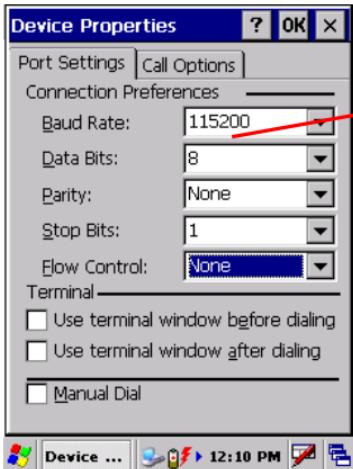


Enter the connection name, such as **GPRS**.

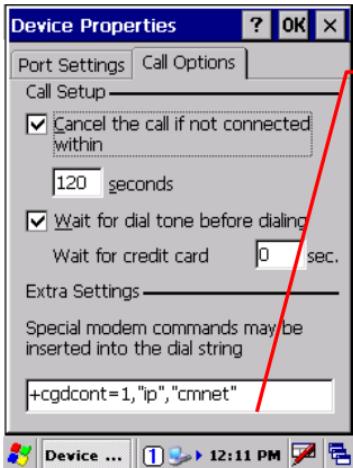


Select **Dial-up connection** and click **Next >**

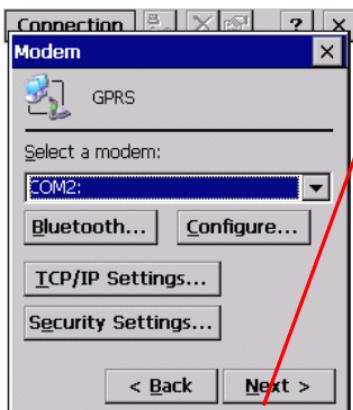
Choose **COM2:** or **COM3:** and then click **Configure**.



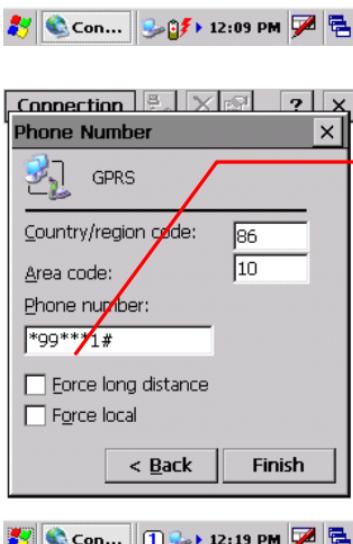
On the **Port Settings** tab page, set **Bits per second** to **115200**.



On the **Call Options** tab page, enter the following command to initialize the modem:  
**+CGDCONT=1,"IP","cmnet"**  
**Cmnet** specifies the point to connect to the GPRS network of China Mobile.  
Click **OK** to switch back to the **Modem** dialog box.



Click **Next**.

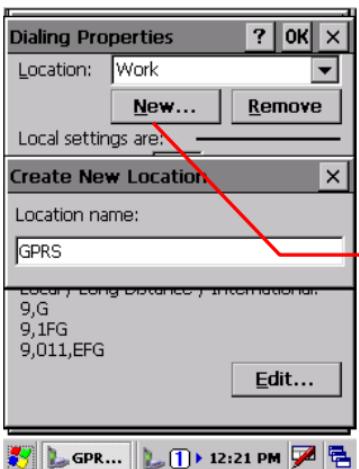


In the **Phone Number** area, enter the dial-up number such as \*99\*\*\*1#. You must query the mobile carrier to obtain this number.  
Click **Finish**.

Double-click the created GPRS connection to display the **Dial-Up Connection** dialog box.



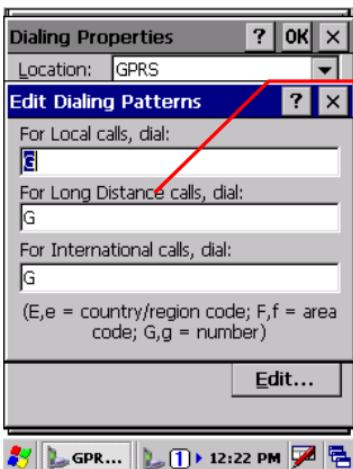
**Click Dialing Properties**  
to set the dialing location.



**Click Create** to enter the new  
location name such as **GPRS**.



Click **Edit** to change the dialing mode.



Change the texts in the three text boxes to **G** and then click **OK** to save the settings and exit.



Click **OK** to save  
the settings and exit.

At this point, the GPRS connection is created successfully.

## 2. Creating the connection automatically.

To simplify the setting of GPRS connection, the device provides the GPRSSetting tool to set the connection quickly.

Choose **My Device** > **Windows** and click the **GPRSsetting** icon to enable the GPRSsetting tool.



Enter the entry name, such as  
**GPRS**.

Enter the required APN, such  
as **cmnet**.

Enter the dialing number.

User name and password are  
not required.

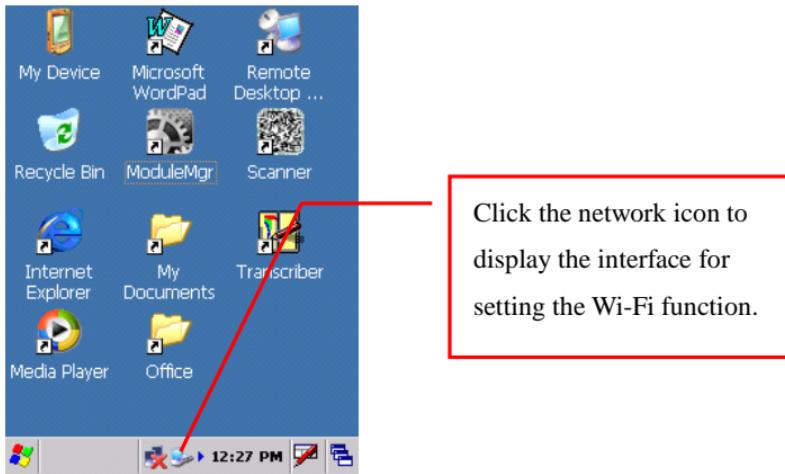
## Setting the Wi-Fi Network

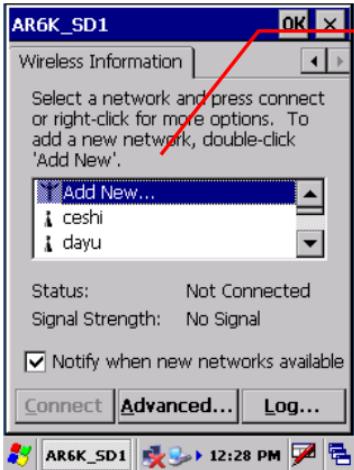
Before using the Wi-Fi, you must ensure that the Wi-Fi function is enabled.

You can start the Wi-Fi function by using the device function manager **ModuleMgr**.

You can query the network administrator for the wireless network information, such as SSID, encryption type, authentication mode, and cipher key.

Click the network icon on the taskbar to display the interface for setting the Wi-Fi and set the Wi-Fi as follows:



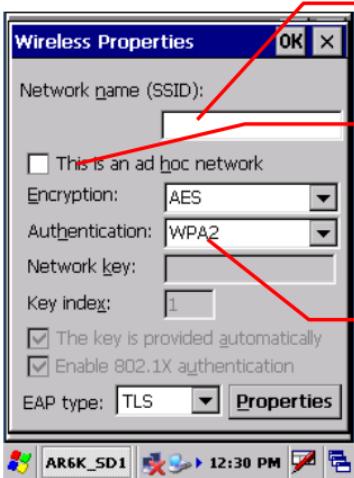


On the **Wireless Information** tab page, available networks are displayed. You can view the SSIDs of APs for which the broadcast function is enabled. Double-click the SSID to be connected. If the broadcast function is not enabled for the AP to be connected, double-click the Add New Network icon.

When you add an available network, the system automatically detects the encryption type and authentication mode of the added network.



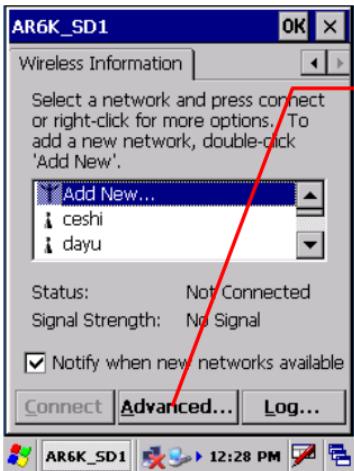
When you add a new network, you must specify the network information.



Enter the network name.

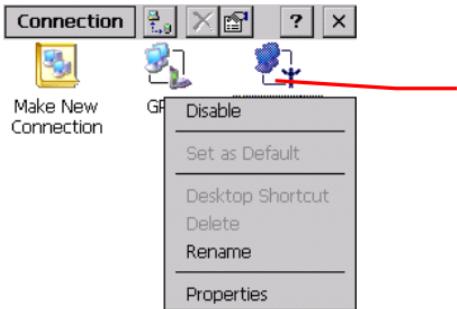
Select this check box to directly connect to another device or PC.

The encryption type varies with the authentication mode.  
Select the correct authentication mode first.

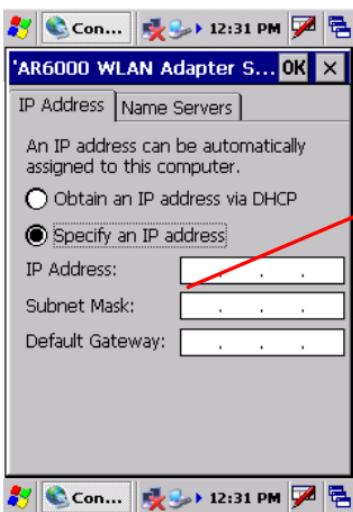


Click **Advanced** to display the interface for advanced settings.

If a static IP address is required for the network, choose **Control Panel > Network and Dial-Up Connection** to set the network adapter properties.



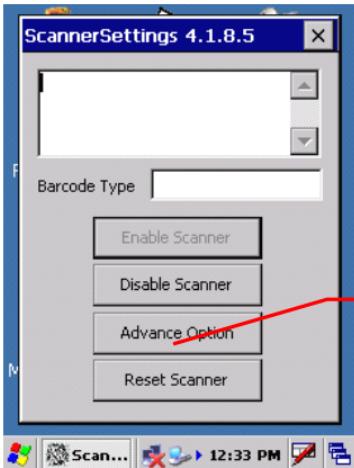
This icon is displayed only when the Wi-Fi function is enabled. Use the stylus to click and hold down the icon and choose **Properties** in the displayed context menu.



Enter the IP address, subnet mask, and default gateway.

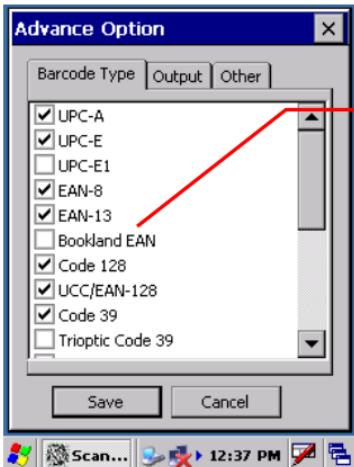
## Setting the Options for Barcode Scanning

You can modify the advanced settings of the scanner by using the ScannerSetting program.



Click **Advanced Options** to display the interface for advanced setting.

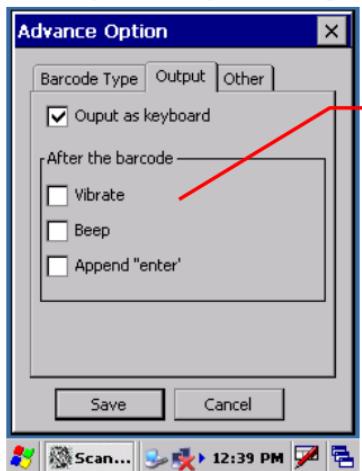
To enhance the decoding speed, the decoding function is disabled for certain types of barcodes by default. You can enable the decoding function manually.



In the **Barcode Type** list box, choose bar code types for which the decoding function is enabled.

You can set the scanner to a standard input device.

At this point, the scanned barcodes are converted into keyboard messages. You can scan barcodes by using programs not supporting barcode scanning, including the Wordpad and remote desktop programs.



On the **Output** tab page, you can select the displayed options to send messages after bar code scanning, such as Enter event, Beep, and vibration.

You can click **Reset Scanner** to restore the default settings.



# Chapter 5 After-Sales Service

## Support and Service

**Website:** You can connect your PC to the Internet and visit [www.urovo.com](http://www.urovo.com) to obtain the product specifications, optional equipment, and related information.

**Customer support:** If you have questions about this manual or you cannot solve any problem through the website, please contact our customer service staff. If your device needs repair, please contact us before delivering the device in order to obtain service information, delivery instructions, and maintenance costs (maintenance irrelevant to the warranty).

**Service:** If you require diagnostic services or other service information, please contact our customer service staff. Do not deliver your device before contacting the Company. If your device meets the warranty conditions for repair, please prepare your purchase date certificate and warranty card.

Before contacting the Company, you must:

1. Read this manual.
2. Prepare the device information, including:
  - ◆ Model
  - ◆ Sequence No.
  - ◆ Purchase certificate
  - ◆ Warranty card

3. Get your device ready. Our customer service staff may ask you to operate the device.
4. Prepare your questions. Detailed problem description can help the customer service staff to solve your problem quickly.

## **Warranty Period**

A customer will enjoy a warranty of 12 months for the handheld terminal (subject to the sales contract) and a warranty of 3 months for accessories from the date of purchase. If no purchase certificate can be presented, the customer will enjoy a warranty of 12 months for the handheld terminal since of the date of production. (The accessories include data line, connector adapter, stylus, battery, power adapter, and handheld elastic strap.)

Based on normal operating conditions, if you find any quality defect within seven days from the purchase date, you can cancel the order or exchange for another product of the same model.

The Company provides guarantee for the defect-free materials and manufacturing of the hardware product for 12 months from the purchase date on the original receipt of the first buyer.

If the Company receives a notification on the defined product defects during the warranty period, the Company may decide to repair or replace the proved defective product.

If the Company cannot repair or replace the product within a reasonable period, the customer can choose a refund when returning the product.

## **Warranty Scope**

The warranty does not cover defects caused by the following factors:

Misuse, unauthorized modification, dismantling the product without permission, installing, operating, using or storing the product without strictly following the environment specifications described in this manual, damage caused during delivery, improper maintenance, using software, components, media, supplies, and consumables not provided by the Company or using the product in a non-designated project, natural wear, damaged product label, and irresistible damages caused by natural disasters.

This warranty applies to mandatory specifications of related national laws.

## **Warranty Declaration**

The Company provides this unique warranty statement for the product without other written or oral warranty statements.

Any commodity route or metaphor applicable to any special purpose is limited to the warranty period of 12 months in this written warranty statement.

In any case, the Company is not liable for direct, indirect, special, accidental, or ensuing damages (including lost profits) regardless of the warranty statement, contract, negligence, or any other legal theory.

## **Contact**



### **Urovo Technology Co., Ltd.**

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